

# ClustalW Multiple Sequence Alignment Results

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	1	15	16	30	31	45	46	60	61	75	76	90	
1 jarvanic	TTGA-AACCTGCCAA		CAAGCAGAAAACCTTG		CGAACTTGTCTT-AA		TACAGTGGGGAAT-G		CGTGGGTTGGGGCCT		CGTCCCTTTCCTTC		87
2 leptanthum	TTGA-AACCTGCCAA		CAAGCAGAAAACCTTG		CGAACTTGTCTTTAA		TACAGTGGGGAATTG		CGTGGGTTGGGGCCT		CGTCCCTTTCCTTC		89
3 anthopo	TTGA-AACCTGCCAA		CAAGCAGAAAACCTTG		CGAACTTGTCTT-AA		TACAGTGGGGAAT-G		CGTGGGTTGGGGCCT		CGTCTCTTTCCTTC		87
4 ferrugin	TTGA-AACCTGCCAA		CAAGCAGAAAACCTTG		CGAACTTGTCT--AA		TACAGTGGGGAAT-G		CGTGGGTTGGGGCCT		CGTCTCTTTCCTTC		86
5 groenlan	TTGA-AACCTGCCAA		CAAGCAGAAAACCTTG		CGAACTTGTCT--AA		TACAGTGGGGAAT-G		CGTGGGTTGGGGCCT		CGTCTCTTTCCTTC		86
6 albifl	TCGA-AACCTGCCAA		CAAGCAGAAAACCTTG		CGAACTTGTCT--AA		TACANT-GGGGAATG		CGTGGGTTGGGGCCT		TGTTCTCTTTCCTTC		86
7 moulmain	TCGA-AACCTGCCAA		CAAGCAGAAAACCTTG		CGAACTTGTCT--AA		TACAGT-GGGGAATG		CGTGGGCTGGGGCCT		TGTTCTCTTTCCTTC		86
8 kiusian	TCGA-AACCTGCCAA		CAAGCAGAAAACCTTG		CGAACTTGTCT--AA		TACAGT-GGGGAATG		CGTGGGTTGGGGCCT		TGTTCTCTTCCTTC		86
9 yedoense	TCGA-AACCTGCCAA		CAAGCAGAAAACCTTG		CGAACTTGTCT--AA		TACAGT-GGGGAATG		CGTGGGTTGGGGCCT		TGTTCTCTTCCTTC		86
10 kaempher	TCGA-AACCTGCCAA		CAAGCAGAAAACCTTG		CGAACTTGTCT--AA		TACAGT-GGGGAATG		CGTGGGTTGGGGCCT		TGTTCTCTTCCTTC		86
11 tschonos	TTGA-AACCTGCCAA		CAAGCAGAAAACCTTG		CGAACTTGTCTCTAA		TACAGT-GGGGAGTG		CGTGGGTTGGGGCCT		TGTTCTCTTTCCTTC		88
12 tsusiophyl	TCGA-AACCTGCCAA		CAAGCAGAAAACCTTG		CGAACTTGTCTCTAA		TACAGT-GGGGAGTG		CGTGGGTTGGGGCCT		TGTTCTCTTTCCTTC		88
13 reticula	TCGA-AACCTGCCAA		CAAGCAGAAAACCTTG		CGAACTTGTCT-AAA		TACAGT-GGGGAATG		CGTGGGTTGGGGCCT		TGTTCTCTTTCCTTC		87
14 wadanum	TCGA-AACCTGCCAA		CAAGCAGAAAACCTTG		CGAACTTGTCT-AAA		TACAGT-GGGGAATG		CGTGGGTTGGGGCCT		TGTTCTCTTTCCTTC		87
15 honkongens	TCGA-AACCTGCCAT		CAAGCAGAAAACCTTG		CAAACCTGTCT-AAA		TACAGT-GGGGATTG		CGTGGGTTGGGGCCT		TGTTCTCTTTCCTTC		87
16 vaseyi.	TCGA-AACCTGCCAA		CAAGCAGAAAACCTTG		CGAACTTGTCT-TAA		TACAGT-GGGGAATG		CGTGGGTTGGGGCCT		TGTTCTCTTTCCTTC		87
17 albrechtii	TCGA-AACCTGCCAA		CAAGCAGAAAACCTTG		CGAACTTGTCC-TAA		TACAGTTGGGGAATG		CGTGGGTTGGGGCCT		TGTTCTCTTTCCTTC		88
18 semibarb	TCGA-AACCTGCCAA		CAAGCAGAAAACCTTG		CGAACTTGTCT--AA		TACAGT-GGGGAATG		CGTGGGTTGGGGCCC		TGTTCTCTATCCTTC		86
19 schlippe	TCGA-AACCTGCCAA		CAAGCAGAAAACCTTG		CGAACTTGTCT--AA		TACAGT-GGGGAATG		CGTGGGTTGGGGCCT		TGTTCTCTTTCCTTC		86
20 lasiophy	TCGA-AACCTGCCAA		CGAGCAGAAAACCTTG		CGAACTTGTCT--AA		TACAGT-GGGGAATG		CGTGGGTTGGGGCCT		TGTTCTCTTTCCTTC		86
21 argyroph	TCGA-AACCTGCCAA		CAAGCAGAAAACCTTG		CGAACTTGTCT--AA		TACAGT-GGGGAATG		CGTGGGTTGGGGCCT		CGTTATCTTTCCTTC		86
22 ponticu	TCGA-AACCTGCCAA		CAAGCAGAAAACCTTG		CGAACTTGTCT--AA		TACAGT-GGGGAATG		CGTGGGTTGGGGCCT		CGTTATCTTTCCTTC		86
23 occidental	TCGA-AACCTGCCAA		CAAGCAGAAAACCTTG		CGAACTTGTCT--AA		TACAGT-GGGGAATG		CGTGGGTTGGGGCCT		CGTCTCTTTCCTTC		86
24 arborescen	TCGA-AACCTGCCAA		CAAGCAGAAAACCTTG		CGAACTTGTAT--AA		TACAGT-GGGGAATG		CGTGGGTTGGGGCCT		CGTCTCTTTCCTTC		86

wrong

25	luteum	TCGA-AACCTGCCAA	CAAGCAGAAAACCTTG	CGAACTTGCT--AA	TACAGT-GGGGAATG	CGTGGGTTGGGGCCT	CGTTCTCTTCCTTC	86
26	molle	TCGA-AACCTGCCAA	CAAGCAGAAAACCTTG	CGAACTTGCT--AA	TACAGC-GGGGAATG	CGTGGGTTGGGGCCT	CGTTCTCTTCCTTC	86
27	canadense	TCGA-AACCTGCCAA	CAAGCAGAAAACCTTG	CGAACTTGCT--AA	TACATT-GGGGAATG	CGTGGGTTGGGGCCT	CGTTCTCTTCCTTC	86
28	camtsch	TCGA-AACCTGCCAA	CAAGCAGAAAACCTTG	CGAACTTGCT--AA	TACAGG-TGGGAATG	CGTGGGTTGGGGCCT	AGTTCTCTTCCTTC	86
29	Daboecia	TCGATAACCTG---A	CGATCAGAAAACCTG	TGAACTTTTACACA	T---GTTGGTGAATG	CGTGGGTTAGG-CCT	AGTTGCCTCTCCTTC	83

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	91	105	106	120	121	135	136	150	151	165	166	180	
1	jarvanic	CGCTTTCC---CCTC	GCGAGTAGATGTGCG	CGGAGCTTTTGGGCA	ACGTGTTT--ATTTA	CTTGTCTGAACAA-CG	AACCCCGGCGCAAAA	172					
2	leptanthum	TGTTTTCC---CCTC	GCGAGTAGATGTGCC	CGGAGCTTTTGGTCA	ACGTGTAC-ATTTA	CTTGTCTGAACAA-CG	AACCCCGGCGCAAAA	174					
3	anthopo	CGCTTTCC---CCTC	GCGAGTAGATGTGCG	CGGAGCTTTTGGGCA	ACGTGTTT--ATTTA	CTTGTCTGAACAA-CG	AACCCCGGCGCAAAA	172					
4	ferrugin	CGCTTTCC---CCTC	GCGAGTAGATGTGCG	CGGAGCTTTTGGGCG	ACGTGTTT--ATTTA	CTTGTCTGAACAA-CG	AACCCCGGCGCAAAA	171					
5	groenlan	CGCTTTCC---CCTC	GCGAGTAGATGTGCG	CGGAGCTTTTGGGCG	ACGTGTTT--ATTTA	CTTGTCTGAACAA-CG	AACCCCGGCGCAAAA	171					
6	albifl	CGCTTTCC---CCTC	GCGAGTAGATGTGCG	CGGAGCTTTTGGGCA	ACGTGTT--CATTTA	CTTGTCTGAACAA-CG	AACCCCGGCGCAAAA	170					
7	moulmain	CGCTTTCC---CCTC	GCGAGTAGATGTGCG	CGGAGCTTTTGGGCA	ACGTGTT--CATTTA	CTTGTGAACAAACG	AACCCCGGCGCAAAA	171					
8	kiusian	CGCTTTCC---CCTG	GCGAGTAGATGTGCG	CGGAGCTTTTGGGCA	ACGTGTT--CATTTA	CTTGTCTGAACAA-CG	AACCCCGGCGCAAAA	170					
9	yedoense	CGCTTTCC---CCTG	GCGAGTAGATGTGCG	CGGAGCTTTTGGGCA	ACGTGTT--CATTTA	CTTGTCTGAACAA-CG	AACCCCGGCGCAAAA	170					
10	kaempher	CGCTTTCC---CCTG	GCGAGTAGATGTGCG	CGGAGCTTTTGGGCA	ACGTGTT--CATTTA	CTTGTCAAACAA-CG	AACCCCGGCGCAAAA	170					
11	tschonos	CGCTTTCC---CCTC	GCGAGTAGATGTGCG	CGGAGCTTTTGGGCA	ACGTGTT--CATTTA	CTTGTCTGAACAA-CG	AACCCCGGCGCAAAA	172					
12	tsusiophyl	CGCTTTCC---CCTC	GCGAGTAGATGTGCG	CGGAGCTTTTGGGCA	ACGTGTT--CATTTA	CTTGTCTGAACAA-CG	AACCCCGGCGCAAAA	172					
13	reticula	CGCTTTCC---CCTC	GCGAGTAGATGTGCG	CGGAGCTTTTGGGCA	ACGTGTT--CATTTA	CTTGTCTGAACAA-CG	AACCCCGGCGCAAAG	171					
14	wadanum	CGCTTTCC---CCTC	GCGAGTAGATGTGCG	CGGAGCTTTTGGGCA	ACGTGTT--CATCTA	CTTGTCTGAACAA-CG	AACCCCGGCGCAAAG	171					
15	honkongens	CGCTTTCC---CCTC	GCGAGTAGATGTGCG	CGGAGCTTTTGGGCA	ACGTGTT--CATTTA	CTTGTCTGAACAA-CG	AACCCCGGCGCAAAA	171					
16	vaseyi.	CGCTTTCCTCCCTC	GCGAGTAGATGTGCG	CGGAGCCTTTGGGCA	ACGTGTT--CATTTA	CTTGTCTGAACAA-CG	AACCCCGGCGCAAAA	174					
17	albrechtii	CGCTTTCC---CCTC	GCGAGTAGATGTGCG	CGGAGCTTTTGGGCA	ACGTGTT--CATTTA	CTTGTCTGAACAA-CG	AACCCCGGCGCAAAA	172					
18	semibarb	CGCTTTCC---CCTC	GCGAGTAGATGTGCG	CGGAGCTTTCTGGCA	ACGTGTC--CATTTA	CTTGTCTGAACAA-CG	AACCCCGGCGCAAAT	170					
19	schlippe	CGCTTTCC---CCTC	GCGAGTAGATGTGCG	CGGAGCTTTTGGGCA	ACGTGTTTTATTTA	CTTGTGAACAA-CG	AACCCCGGCGCAAAA	172					

20 lasiophy	CGCTTTCC---CCTC	GCGAGTAGATGTGCG	CGGAGCTTTTGGGCA	ACGTGTT--CATTTA	CTTGTCAACAA-CG	AACCCCGGCGCAAAA	170
21 argyroph	CGCTTTCC---CCTG	GCGAGTAGATGTGCG	CGGAGCTTTTGGGCA	ACGTGTT--CATTTA	CTTGTCAAACAA-CG	AACCCCGGCGCAAAA	170
22 ponticu	CGCTTTCC---CCTC	GCGAGTAGATGTGCG	CGGAGCTTTTGGGCA	ACGTGTT--CATTTA	CTTGTCAAACAA-CG	AACCCCGGCGCAAAA	170
23 occidental	CGCTTTCC---CCTC	GCGAGTAGATGTGCG	CGGAGCTTTTGGGCA	ACGTGTT--CATTTA	CTTGTCAACAA-CG	AACCCCGGCGCAAAA	170
24 arborescen	CGCTTTCC---CCTC	GCGAATAGATGTGCG	CGGAGCTTTTGGGCA	ACGTGTT--CATTTA	CTCGTCAACAA-CG	AACCCCGGCGCAAAA	170
25 luteum	CGCTTTCC---CCTC	GCGAGTAGATGTGCG	CGGAGCTTTTGGGCA	ACGTGTT--CATTTA	CTTGTCAACAA-CG	AACCCCGGCGCAAAA	170
26 molle	CGCTTTCC---CCTC	GCGAGTAGATGTGCG	CGGAGCTTTTGGGCA	ACGTGTTT-CATTTA	CTTGTCAACAA-CG	AACCCCGGCGCAAAA	171
27 canadense	TGCTTTCC---CCTC	GCGAGTAGATGTGCG	CGGAGCTTTTGGGCA	ACGTGTT--CATTTA	CTTGTCAACAA-CA	AACCCCGGCGCAAAA	170
28 camtsch	CGCTTTCC---CCTC	GCGAGTAGATGCGCG	CGGAGCTTTTGGGCA	ACGTGTT--CATTTA	CTCGTCAACAA-CG	AACCCCGGCGCAAAA	170
29 Daboecia	GTATTTCC-CCTTGC	GAGAGTATATGTGTG	CAATGCTTTCAAGCT	ATGCATT-CATTTA	CTTGTCAATAA-CA	AACACCGGCGCAAAA	170

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	181	195	196	210	211	225	226	240	241	255	256	270	
1 jarvanic	CGTGCCAAGGATAAT	TGAACAATGTTTGTG	CACGTCCCCT-GCCC	ATTTTGGGTGGTGT	TGGCGTGCACATCTT	TCGAATAAC---TAA							258
2 leptanthum	CGTGCCAAGGATAAT	TGAACAATGTTTGTG	CACATCCCCT-GCCC	GTTTTGGGCGGTGT	TGGCGTGCACATCTT	TCGAATAAC---TAA							260
3 anthopo	CGTGCCAAGGATAAT	TGAACAAAGTTTGTG	CACGTCCCCT-GCCC	GTTTTGGGTGGTGT	TGGCGTGCACATCTT	TCGAATAAC---TAA							258
4 ferrugin	CGCGCCAAGGATAAT	TGAACAAAGTTTGTG	CACGTCCCCT-GCCT	GTTTTGGGTGGTGT	TGGCGTGCACATCTT	TCGAATAAC---TGA							257
5 groenlan	CGCGCCAAGGATAAT	TGAACAAAGTTTGTG	CACGTCCCCT-GCCT	GTTTTGGGTGGTGT	TGGCGTGCACATCTT	TCGAATAAC---TAA							257
6 albift	CGCGCCAAGGATAAT	TGAACAAAGTTTGTG	AACGTCCCCT-GCCC	GTTTCGGGTGGTGT	TGGCGTGCACATCTT	TCGAATAAC---TAA							256
7 moulmain	CGCGCCAAGGATAAT	TGAACAAAGTTTGTG	CACGTCCCCT-GCCC	GCTTTCGGGTGGTGT	TGGCTTGCACATCTT	TCGAATAAC---TAA							257
8 kiusian	CGCGCCAAGGATAAT	TGAACAAAGTTTGTG	CACGTCCCCT-GCCC	GTTTTGGGTGGTGT	TGGCGTGCACATCTT	TTGAATAAC---TAA							256
9 yedoense	CGCGCCAAGGATAAT	TGAACAAAGTTTGTG	CACGTCCCCT-GCCC	GTTTTGGGTGGTGT	TGGCGTGCACATCTT	TTGAATAAC---TAA							256
10 kaempher	CGCGCCAAGGATAAT	TGAACAAAGTTTGTG	CACGTCCCCT-GCCC	GTTTTGGGTGGTGT	TGGCGTGCACATCTT	TTGAATAAC---TAA							256
11 tschonos	CGCGCCAAGGATAAC	TGAACAAAGTTTGTG	CACGTCCCCT-GCCC	GTTATTGGGTGGTGT	TGGCGTGCACATCTT	TTGAATAAC---TAA							258
12 tsusiophyl	CGCGCCAAGGATAAT	TGAACAAAGTTTGTG	CACGTCCCCT-GCCC	GTTATTGGGTGGTGT	TGGCGTGCACATCTT	TTGAATAAC---TAA							258
13 reticula	CGCGCCAAGGATAAT	TGAACAGAGTTTGTG	CACGTCCCCT-GCCC	GTTTCGGGTGGTGT	TGGCGTGCACATCTT	TTGAATAAC---TAA							257
14 wadanum	CGCGCCAAGGATAAT	TGAACAGAGTTTGTG	CACGTCCCCT-GCCC	GTTTTGGGTGGTGT	TGGCGTGCACATCTT	TTGAATAAC---TAA							257

15 honkongens	CGCGCCAAGGATAAT	TGAACAAAGTTTGTG	CACGTCCCCT-GCCC	GTTTTCGGGTGGCGT	TGGCGTGCACATCTT	TCGAATAAC---TAA	257
16 vaseyi.	CGCGCCAAGGATAAT	TGAACAAAGTGTGTG	CACGTCCCCTTGCCC	GTTTTCGGGTGGTGT	TGGCGTGCACATCTT	TCGAATAAC---TAA	261
17 albrechtii	CGCGCCAAGGATAAT	TGAACAAAGTTTGTG	CACGTCCCCT-GCCC	GTTTTCGGGTGGTGT	TGGCGTGCACATCTT	TTGAATAAC---TAA	258
18 semibarb	CGCGCCAAGGATAAT	TGAACGAAGTTTGTG	CACGTCCCTTGCCC	GTTTTGGGTGGCGT	TGGCGTGCACATCTT	TCGAATAAC---TAA	257
19 schlippe	CGCGCCAAGGATAAT	TGAACAAAGTTTGTG	CACGTCCCCT--GCC	GTTTTCGGGTGGGT	TGGCGTGCACATCTT	TCGAAAAAC---TAA	257
20 lasiophy	CGCGCCAAGGATAAT	TGAACAAAGTTTGTG	CACGTCCCCT-GCCC	GTTTTCGGGTGGTGT	TGGCGTGCACATCTT	TCGAATAAC---TAA	256
WRONG							
21 argyroph	CGCGCCAAGGATAAT	TGAACAAAGTTTGT	CACGTCCCCTGCCC-	GTTTCCGGTGGTGT	TGGCGTGCACATCTT	TCGAATAAC---TAA	256
22 ponticu	CGCGCCAAGGATAAT	TGAACAAAGTTTGTG	CACGTCCCCTGCCC-	GTTTCTGGTGGTGT	TGGCGTGCACATCTT	TCGAATAAC---TAA	256
23 occidental	CGCGCCAAGGATAAT	TGAACAAAGTTTGTG	CACATCCCCTGCCT-	GCTTTCGGTGGTGT	TGGCGTGCACATCTT	TCGAATAAC---TAA	256
24 arborescen	CGCGCCAAGGATAAT	TGAACAAAGTTTGTG	CACATCCCCTGCCT-	GCTTTCGGTGGTGT	TGGCGTGCACATCTT	TCGAATAAC---TAA	256
25 luteum	CGCGCCAAGGATAAT	TGAACAAAGTTTGTG	CACATCCCCTGCCT-	GCTTTCGGTGGTGT	TGGCGTGCACATCTT	TCGAATAAC---TAA	256
26 molle	CGCGCCAAGGATAAT	TGAACAAAGTTTGTG	CACATCCCCTGCCCC	GCTTTCGGTGGTGT	TGGCGTGCACATCTT	TCGAATAAC---TAA	258
27 canadense	CGCGCCAAGGATAAT	TGAACAAAGTTTGTG	CACATCCCCTGCCC-	GCTTCCGGTGGTGT	TGGCGTGCACATCTT	TCGAATAAC---TAA	256
28 camtsch	CGCGCCAAGGACAAT	TGAACAAAGTTTGTG	CACATCCCCT-GCCC	ATTTTCGGTGGTGT	TGGCGTGCACATCTT	TCGAAAAACAATAA	259
29 Daboecia	CGTGCCAAGGACAAT	TGAACAA-GTTTGTG	CATGTCCGCT-GCTC	ATTTTGGTGGTGT	TGGCATGGACATCTT	TTGAATAAC---TAA	255

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	271	285	286	300	301	315	316	330	331	345	346	360	
1 jarvanic	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCCTGAA	348						
2 leptanthum	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCCTGAA	350						
3 anthopo	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCCTGAA	348						
4 ferrugin	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCCTGAA	347						
5 groenlan	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCCTGAA	347						
6 albifl	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCCTGAA	346						
7 moulmain	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCCTGAA	347						
8 kiusian	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCCTGAA	346						
9 yedoense	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCCTGAA	346						

10 kaempher	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCGTGAA	346
11 tschonos	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCGTGAA	348
12 tsusiophyl	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCGTGAA	348
13 reticula	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCGTGAA	347
14 wadanum	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCGTGAA	347
15 honkongens	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCGTGAA	347
16 vaseyi.	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCGTGAA	351
17 albrechtii	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCGTGAA	348
18 semibarb	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCGTGAA	347
19 schlippe	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCGTGAA	347
20 lasiophy	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCGTGAA	346
21 argyroph	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCGTGAA	346
22 ponticu	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCGTGAA	346
23 occidental	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCGTGAA	346
24 arborescen	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCGTGAA	346
25 luteum	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCGTGAA	346
26 molle	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCGTGAA	348
27 canadense	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCGTGAA	346
28 camtsch	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCGTGAA	349
29 Daboecia	ACGACTCTCGGCAAC	GGATATCTCGGCTCT	TGCATCGATGAAGAA	CGTAGCGAAATGCGA	TACTTGGTGTGAATT	GCAGAATCCCGTGAA	345

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	361	375	376	390	391	405	406	420	421	435	436	450	
1 jarvanic	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGCCTGCCT	GGGCGTCACGCATTG	CATCATCCACTCACC							438
2 leptanthum	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGCCTGCCT	GGGCGTCACGCATTG	TGTCATCCACTCACC							440
3 anthopo	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTCATCCACTCACC							438
4 ferrugin	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTCATCCACTCACC							437

5 groentan	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTCATCCACTCACC	437
6 albifl	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTCATCCACTCACC	436
7 moullmain	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTCATCCACTCACC	437
8 kiusian	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTCATCCACTCACC	436
9 yedoense	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTCATCCACTCACC	436
10 kaempher	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTCATCCACTCACC	436
11 tschonos	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTCATCCACTCACC	438
12 tsusiophyl	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTCATCCACTCACC	438
13 reticula	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTCATCCACTCACC	437
14 wadanum	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTCATCCACTCACC	437
15 honkongens	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTCATCCACTCACC	437
16 vaseyi.	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTCATCCACTCACC	441
17 albrechtii	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTCATCCACTCACC	438
18 semibarb	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTCATCCACTCACC	437
19 schlippe	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	TGTCATCCACTCACC	437
20 lasiophy	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTCATCCACTCACC	436
21 argyroph	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTCATCCACTCACC	436
22 ponticu	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTACCCACTCACC	436
23 occidental	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTCATCCACTCACC	436
24 arborescen	CCATCGAGTCTTTGA	ACGCAAGTTGCCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTCATCCACTCACC	436
25 luteum	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTCATCCACTCACC	436
26 molle	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTCATCCACTCACC	438
27 canadense	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTCATCCACTCACC	436
28 camtsch	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CGTCGCCCCTCACC	439
29 Daboecia	CCATCGAGTCTTTGA	ACGCAAGTTGCGCCT	GAAGCCATTAGGTTG	AAGGCACGTCTGCCT	GGGCGTCACGCATTG	CATTGCCCCTCAAC	435

	451	465	466	480	481	495	496	510	511	525	526	540	
1 jarvanic	CCGTGCCTCA-TCGG	CGGGTAAGTGTGTGG	GAGGATATTGGCCCC	CCGTTCACATTGAG	CTCGGTCGGCCTAAA	AATGACAGTCCCCGA							527
2 leptanthum	CCTTGCCTCA-TCGG	CGGGTAAGTGCCTGG	GAGGATATTGGCCCC	CCGTTCACATTGTG	CTCGGTTGGCCTAAA	AGTGACGGTCCCCGA							529
3 anthopo	CCGTTCTCA-TCGG	CGGGTAAGTGCCTGG	GAGGATATTGGCCCC	CCGTTCACATTCTGTG	CTCGGTCGGCCTAAA	AATGACGGTCCCCGA							527
4 ferrugin	CCGTGCCTCA-TCGG	CGGGTAAGTGCCTGG	GAGGATATTGGCCCC	CCGTTCACATTCTGTG	CTCGGTCGGCCTAAA	AATGACGGTCCCCGA							526
5 groentan	CCGTGCCTCA-TCGG	CGGGTAAGTGCCTGG	GAGGATATTGGCCCC	CCGTTCACATTCTGTG	CTCGGTCGGCCTAAA	AATGACGGTCCCCGA							526
6 albifl	CTGTGCCTCA-TCGG	CGGGTAAGTGCCTGG	GCGGATATTGGCCCC	CCGTTCACATTCTGTG	CTCGGTCGGCCTAAA	AATGACGGTCCCCGA							525
7 moullmain	CCGTGCCTCA-TCGG	CGGGTAAGTGCCTGG	GCGGATATTGGCCCC	CCGTTCACATTCTGTG	CTCGGTCGGCCTAAA	AATGACAGTCCCCGA							526
8 kiusian	CCGTGCCTCA-TCGG	CAGGTAAGTGCCTGG	GCGGATATTGGCCCC	CCGTGCACATTGGTG	CTCGGCCGGCCTAAA	AATGACGGTCCCCGA							525
9 yedoense	CCGTGCCTCA-TCGG	CAGGTAAGTGCCTGG	GCGGATATTGGCCCC	CCGTGCACATTGGTG	CTCGGCCGGCCTAAA	AATGACGGTCCCCGA							525
10 kaempher	CCGTGCCTCA-TCGG	CAGGTAAGTGCCTGG	GCGGATATTGGCCCC	CCGTGCACATTGGTG	CTCGGCCGGCCTAAA	AATGACGGTCCCCGA							525
11 tschonos	CCGTGCCTCA-TCGG	CAGGTAAGTGCCTGG	GCGGATATTGGCCCC	CCGTGCACATTGGTG	CTCGGCCGGCCTAAA	AATGACGGTCCCCGA							527
12 tsusiophyl	CCGTGCCTCA-TCGG	CAGGTAAGTGCCTGG	GCGGATATTGGCCCC	CCGTGCACATTGGTG	CTCGGCCGGCCTAAA	AATGACGGTCCCCGA							527
13 reticula	CCGTGCCTCA-TCGG	CAGGTAAGTGCCTGG	GCGGATATTGGCCCC	CCGTTCACATTCTGTG	CTCGGCCGGCCTAAA	AATGACGGTCCCCGA							526
14 wadanum	CCGTGCCTCA-TCGG	CAGGTAAGTGCCTGG	GCGGATATTGGCCCC	CCGTTCACATTCTGTG	CTCGGCCGGCCTAAA	AATGACGGTCCCCGA							526
15 honkongens	CCGTGCCTCA-TCGG	CAGGTAAGTGCCTGG	GCGGATATTGGCCCC	CCGTTCACATTCTGTG	CTCGGCCGGCCTAAA	AATGACGGTCCCCGA							526
16 vaseyi.	TCGTGCCTCA-TCGG	CGGGTAAAGTGCCTGG	GCGGATATTGGCCCC	CCGTTCACATTGTG	CTCGGTCGGCCTAAA	AATGACGGTCTCTCGA							530
17 albrechtii	CCGTGCCTCA-TCGG	CGGGTAAGTGCCTGG	GCGGATACTGGCCCC	CCGTTCACATTCTGTG	CTCGGTCGGCCTAAA	AATGACGGTCCCCGA							527
18 semibarb	CCGTGCCTCA-TCGG	CAGGTAAGTGCCTGG	GCGGATATTGGCCCC	CCGTTCACATTCTGTG	CTCGGCCGGCTTAAA	AATGACGGTCCCCGA							526
19 schlippe	CCGTGCCTCA-TTGG	CAGGTAAGTGCCTGG	GCGGATATTGGCCCC	CCGTTCACATTCTGAG	CTCGGTCGGCCTAAA	AATGACGGTCCCCGA							526
20 lasiophy	CCGTGCCTCA-TCGG	CAGGTAAGTGTGTTG	GCGGATATTGGCCCC	CCGTTCACATTGTG	CTCGGTCGGCCTAAA	AGTGACGGTCCCCGA							525
21 argyroph	CCGTGCCTCA-TCGA	CGGGTAAGTGTGTGG	GCGGATATTGGCCCC	CCGTTCACATTCTGTG	CTCGGTCGGCCTAAA	AATGACGGTCCCCGA							525
22 ponticu	CCGTGCCTCA-TCGA	CGGGTAAGTGTGTGG	GTGGATATTGGCCCC	CCGTTCACATTCTGTG	CTCGGTCGGCCTAAA	AATGACGGTCCCCGA							525
23 occidental	CCATGCCTCA-TCGG	CGGGGAAGTGCCTGG	GCGGATATTGGCCCC	CCGTTCACATTCTGTG	CTCGGTCGGCCTAAA	AATGACGGTCCCCGA							525
24 arborescen	CCGTGCCTCA-TCGG	CGGGTAAGTGCCTGG	GCGGATATTGGCCCC	CCGTTCACATTCTGTG	CTCGGTCGGCCTAAA	AATGACGGTCCCCGA							525
25 luteum	CCGTGCCTCA-TCGG	CGGGTAAGTGCCTGG	GCGGATATTGGCCCC	CCGTTCACATTCTGTG	CTCGGTCGGCCTAAA	AATGACGGTCCCCGA							525
26 molle	CCGTGCCTCA-TCGG	CGGGTAAGTGCCTGG	GCGGATATTGGCCCC	CCGTTCACATTCTGTG	CTCGGTCGGCCTAAA	AATGACGGTCCCCGA							527
27 canadense	CCGTGCCTCA-TCGG	CGGGTAAGTGTGTGG	GCGGATATTGGCCCC	CCGTTCACATTCTGTG	CTCGGTCGGCCTAAA	AGTGACGGTCCCCGA							525

28 camtsch CCGTGCCTCAGTGGG CGGGTAAGTGTGTGG GCGGATATTGGCCCC CCGTTCACATTCGTG CTCGGTCCGGCCTAAA AAAGACGGTCC-CGA 528

29 Daboecia CCGCGCCTCATTGGA CGGGTAAGTGTGTGG GCGGATATTGGCCCC CCGTTCACAGTTGTG CTCGGCCGGCCTAAA AAT-AAGGTCCTCAA 524

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	541	555	556	570	571	585	586	600	601	615	616	630	
1 jarvanic	TGACGGACATCACGG	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CTTTGTCGCGGG-CT	GGCTCAACGACCCTT							616
2 leptanthum	TGATGGACATCACGG	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CTTTGTCGCGGG-CT	GGCTCAACGACCCTT							618
3 anthopo	TGACGGACATCACGG	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CTTTGTCGCGGG-CT	GGCTCATCGACCCTT							616
4 ferrugin	TGACGGACATCACGG	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CTTTGTCGAGGG-CT	GGCTCATCGACCCTT							615
5 groentan	TGACGGACATCACGG	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CTTTGTCGAGGG-CT	GGCTCATCGACCCTT							615
6 albifl	TGACGGACATCACGG	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CTTTGTCGCGGG-CT	GTCTCATCGACCCTT							614
7 moulmmain	TGACGGACATCACGG	CAAGTGGTGGTTGCC	AAACCGTCGCGTCGC	GTCGTGCATGCCATT	CTTTGTTGCGGG-CT	GACTCATCGACCCTT							615
8 kiusian	TGACGGACATCACGG	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CTTTGTCGCGGGGCT	GGCTCATCGACCCTT							615
9 yedoense	TGACGGACATCACGG	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CTTTGTCGCGGGGCT	GGCTCATCGACCCTT							615
10 kaempher	TGACGGACATCACGG	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CTTTGTCGCGGGGCT	GGCTCATCGACCCTT							615
11 tschonos	TGACGGACATCACGG	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CTTTGTCGCGGGGCT	GGCTCATCGACCCTT							617
12 tsusiophyl	TGACGGACATCACGG	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CTTTGTCGCGGGGCT	GGATCATCGACCCTT							617
13 reticula	TGACGGACATCACGG	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CTTTGTCGCGGG-CT	GGCTCATCGACCCTT							615
14 wadanum	TGACGGACATCACGG	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CTTTGTCGCGGG-CT	GGCTCATCGACCCTT							615
15 honkongens	TGACGGACATCACGG	CAAGTGGTGGTTGCC	AAACCGTCGCGTCGT	GTCGTGCATGCCATT	CTTTGTCGCGGG-CT	GGCTCATCGACCCTT							615
16 vaseyi.	TGACGGACATCACGG	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CTTTGTCGCGGG-CC	GGCTCAGCGACCCTT							619
17 albrechtii	TGACGGACATCACGG	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CTTTGTCGCGGG-CC	GGCTCATCGACCCTT							616
18 semibarb	TGACGGACATCACGG	CAAGTGGTGGTTGCC	AAACCGTCGCGTCGC	GTCGTGCGTGCCATT	CTTTGTCGCGGG-CT	GGCTCATCGACCCTT							615
19 schlippe	TGATGGACATCACGG	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CTTTGTCGCGGG-CT	GGCTCATCGACCCTT							615
20 lasiophy	TGAAGGACATCACGG	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CTTTGTCGTGGG-CT	GGCTCATCGACCCTT							614
21 argyroph	TGATGGACATCACGG	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CTTTGTCGCGGG-CT	GGCTCATCGACCCTT							614
22 ponticu	TGATGGACATCACGG	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CTTTGTCGCGGG-CT	GGCTCATCGACCCTT							614



23	occidental	TGACGGACATCACGA	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CCTTGTCGCGGG-CT	GGCTCATCGACCCTC	614
24	arborescen	TGACGGACATCACGA	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CGTTGTCGCGAGG-CT	GGCTCATCGACCCTC	614
25	luteum	TGACGGACATCACGA	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CCTTGTCGCGGG-CT	GGCTCATCGACCCTC	614
26	molle	TGACGGACATCACGA	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CCTTGTCGCGGG-CT	GGCTCATCGACCCTC	616
27	canadense	TGACGGACATCACGA	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CTTTGTCGCGGG-CT	GGCTAATCGACCCTT	614
28	camtsch	TGACGGACATCACGG	CAAGTGGTGGTTGCC	AAACCGTCGCGTCAT	GTCGTGCATGCCATT	CTTTGTCGTGGG-CT	GGTTCATCGACCCTT	617
29	Daboecia	TGACGGACATCATGA	CAAGTGGTGGTTGCC	AAACCGTCGCATTAT	GTCGTGCATGCTACT	CCTTGTTGTGGG-CT	GACTCATCGACCCTT	613

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	631	645	646	660	661	675	676	690	691	705	706	720
1 jarvanic	AA-GTACCATCAACA		ACTC--CGGTACCTC		AACTGCGACCCCAGG		TCAGGCGGGATTA				671	
2 leptanthum	AA-GTACCATCAGCA		ACTT--CGGTGCCTC		AACTGCGACCCCAGG		TCAGGCGGGATTA				673	
3 anthopo	AA-GTACCATCAACA		ACTC--TGGTACCTC		AACTGCGACCCCAGG		TCAGGCGGGATTA				671	
4 ferrugin	AA-GTACCAT---CA		ACTC--TGGTACCTC		AACTGCGACCCCAGG		TCAGGCGGGATTA				667	
5 groenlan	AA-GTACCAT---CA		ACTC--TGGTACCTC		AACTGCGACCCCAGG		TCAGGCGGGATTA				667	
6 albifl	AA-GTACCATCAACT		G-----TGGTACCTC		AACTGCGACCCCAGG		TCAGGCGGGATTA				666	
7 moulmmain	AA-GTACCATCAATT		G-----TGGTACCTC		AATTGCGACCCCAGG		TCAGGCGGGATTA				667	
8 kiusian	AA-GTACCATATACT		G-----CGGTACCTC		AACTGCGACCCCAGG		TCAGGCGGGATTA				667	
9 yedoense	AA-GTACCATATACT		G-----CGGTACCTC		AACTGCGACCCCAGG		TCAGGCGGGATTA				667	
10 kaempher	AA-GTACCATATACT		G-----CGGTACCTC		AACTGCGACCCCAGG		TCAGGCGGGATTA				667	
11 tschonos	AA-GTACCATATACT		G-----TGGTACCTC		AACTGCGACCCCAGG		TCAGGCGGGATTA				669	
12 tsusiophyl	AA-GTACCATATACT		G-----TGGTACCTC		AACTGCGACCCCAGG		TCAGGCGGGATTA				669	
13 reticula	AA-GTACCATCAACT		G-----TGGTACCTC		AACCGCGACCCCAGG		TCAGGCGGGATTA				667	
14 wadanum	AA-GTACCATCAACT		G-----TGGTACCTC		AACCGCGACCCCAGG		TCAGGCGGGATTA				667	
15 honkongens	AA-GTACCATCAACT		G-----TGGTACCTC		AATTGCGACCCCAGG		TCAGACGGCATT				667	
16 vaseyi.	AA-GTACCATCAACT		G-----TGGTACCTC		AACTGCGACCCCAGG		TCAGGCGGGATTA				671	
17 albrechtii	AA-GTACCATCAACC		G-----TGGTACCTC		AACTGCGACCCCAGG		TCAGGCGGGATTA				668	

18 semibarb	AA-GTACCAACAATT	G-----TGGTACCTC	AACTGCGACCCCAGG	TCAGACGGGATTA	667
19 schlippe	AA-GTACCATCAACT	G-----TGGTACCTC	AACTGCGACCCCAGG	TCAGGCGGGATTA	667
20 lasiophy	AA-CTACCATCAACT	G-----TGGTACCTC	AACTGCGACCCCAGG	TCAGGCGGGATTA	666
21 argyroph	AA-GTACCATCAACT	G-----TGGTACCTC	AACTGCGACCCCAGG	TCAGGCGGGATTA	666
22 ponticu	AA-GTACCATCAACT	G-----TGGTACCTC	AACTGCGACCCCAGG	TCAGGCGGGATTA	666
23 occidental	AAAGTACCATTAACT	GGCTAATGGCACCTC	AACTGCGACCCCAGG	TCAGGCGGGATTA	672
24 arborescen	AAAGTACCATTAACT	GGCTAATGGCACCTC	AACTGCGACCCCAGG	TCAGGCGGGATTA	672
25 luteum	AAAGTACCATCAACT	G-----TGGTACCTC	AACTGCGACCCCAGG	TCAGGCGGGATTA	667
26 molle	AAAGTACCATCAACT	G-----TGGTACCTC	AACTGCGACCCCAGG	TCAGGCGGGATTA	669
27 canadense	AA-GTACCAACAACT	G-----TGGTACCTC	AACTGCGACCCCAGG	TCAGGCGGGATTA	666
28 camtsch	AA-GTACCATCAATT	G-----TGGTACCTC	AGCTGCGACCCCAGG	TCAGGCGGGATTA	669
29 Daboecia	AA-GTACCCTCAATT	G-----TGGTACCTC	AAGTGCACCCCAGG	TCAGGCGGGATTA	665

**Alignment Data (Fasta format)**

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>leptanthum

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>ferrugin

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>albifl

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>moulmain

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>kiusian

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